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ATTORNEY DOCKET NO. CONFIRMATION NO APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 100353-00037 8190 09/772,080 01/30/2001 Nobutaka Taniguchi **EXAMINER** 04/01/2004 4372 7590 ARENT FOX KINTNER PLOTKIN & KAHN BURD, KEVIN MICHAEL 1050 CONNECTICUT AVENUE, N.W. ART UNIT PAPER NUMBER **SUITE 400** WASHINGTON, DC 20036

2631 DATE MAILED: 04/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Application No.	Applicant(s)
. • Office Action Summary		09/772,080	TANIGUCHI ET AL.
		Examiner	Art Unit
The SCAULING	DATE of this communication	Kevin M Burd	2631
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
<ol> <li>Responsive to communication(s) filed on <u>28 June 2001</u>.</li> <li>This action is <b>FINAL</b>. 2b)  This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</li> </ol>			
Disposition of Claims			
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-6 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>			
Priority under 35 U.S.C	. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.			
Attachment(s)			
1) Notice of References Cit 2) Notice of Draftsperson's	Patent Drawing Review (PTO-948) tatement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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## Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Means appears on lines 6, 7, 9, 10, 11, 13, 14, 15 and 17 of the abstract.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 3, 4 and 6 are rejected under 35 U.S.C. 102(a) as being anticipated by the instant application's disclosed prior art, specifically figure 1.

Regarding claims 1, 3, 4 and 6, the instant application's disclosed prior art teaches, in figure 1, an apparatus for adjusting a delay time so the input and output phase match one another and method for using the apparatus. Dividing means 2

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divides a frequency of the input signal by a first frequency. Delaying means 3 (DLL array) delays the input signal by a predetermined time. A second dividing means 4 divides the frequency of the delayed input signal by a second frequency. A comparing means 8 compares the phase of the first divided signal and the phase of the second divided signal and outputs a signal indicating the comparison result to adjust the delay for the delaying means 3. The delay is adjusted in delay adjuster 10 and this circuit receives the output of the phase comparison.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over the instant application's disclosed prior art, specifically figure 1, in view of Hanke, III et al (US 5,376,848).

Regarding claims 2 and 5, the instant application's disclosed prior art discloses the apparatus and method of using the apparatus as stated above in paragraph 2. The instant application's disclosed prior art does not disclose the dividing means for dividing the input signal is divided by one. Hanke discloses a delay matching circuit shown in figures 5 and 6. Figure 6 discloses a divider circuit capable of dividing the input signal by a number of values to ensure the input signal and the output signal are phase

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matched. This includes dividing the input signal by one in element 100 of figure 6. It would have been obvious for one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hanke into the apparatus and method of using the apparatus of the instant application's disclosed prior art. By dividing the frequency by one, the original signal is locked to the output signal and a more accurate delay adjustment is formed.

#### Contact Information

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

#### or faxed to:

(703) 872-9314, (for formal communications intended for entry or for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Burd, whose telephone number is (703) 308-7034. The Examiner can normally be reached on Monday-Thursday from 9:00 AM - 6:00 PM.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Kevin M. Burd

PATENT EXAMINER

3/30/2004